

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number  
**WO 2005/007691 A2**

(51) International Patent Classification<sup>7</sup>: **C07K 14/44**,  
C12N 15/30, A61K 39/018, G01N 33/569, C07K 16/20,  
C12N 15/10

(74) Agents: **AXELROD, Nancy, J.** et al.; **VENABLE LLP**,  
P.O. Box 34385, Washington, DC 20043-9998 (US).

(21) International Application Number:  
PCT/US2004/022605

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 14 July 2004 (14.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/486,750 14 July 2003 (14.07.2003) US

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **INTERNATIONAL LIVESTOCK RESEARCH INSTITUTE** [KE/KE]; P.O. Box 30709, 00100 Nairobi (KE).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **TARACHA, Evans** [—/KE]; Riara Villas, Riara Road, Lavington, Nairobi (KE). **GLEW, Jane** [—/KE]; Nairobi (KE). **GRAHAM, Simon** [—/KE]; Nairobi (KE). **MWANGI, Duncan** [—/KE]; Nairobi (KE). **HONDA, Yoshikazu** [—/KE]; Nairobi (KE). **PELLE, Roger** [—/KE]; Nairobi (KE). **TONUKARI, John** [—/KE]; Nairobi (KE). **YAM-AGE, Matasuke** [—/KE]; Nairobi. **NENE, Vishvanath** [GB/US]; 11601 Milbern Drive, Potomac, MD 20854 (US).

Published:

— *without international search report and to be republished upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: EAST COST FEVER VACCINE BASED ON CTL-SPECIFIC SCHIZONT ANTIGENS

(57) Abstract: This invention relates to DNA, protein, and peptide compositions and methods for identification of intracellular antigens of pathogens, that stimulate animal cytotoxic lymphocytes in an antigen specific manner. Such antigens are prime candidates for the development of vaccines, useful for the prevention of intracellular pathogenic diseases such as East Coast Fever.

WO 2005/007691 A2